NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

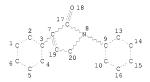
GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 16

STEREO ATTRIBUTES: NONE

=> d his 13

(FILE 'REGISTRY' ENTERED AT 09:27:52 ON 26 FEB 2008)
L3 8571 S L1 FUL

=> d 116 L16 HAS NO ANSWERS L16 STF



NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 18

STEREO ATTRIBUTES: NONE

=> d his 117

(FILE 'REGISTRY' ENTERED AT 09:48:05 ON 26 FEB 2008) 984 SEARCH L16 SSS SUB=L3 FUL

=> d 118

L18 HAS NO ANSWERS

L18



NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC 7 NUMBER OF NODES IS 18

STEREO ATTRIBUTES: NONE

=> d his 119

(FILE 'REGISTRY' ENTERED AT 09:48:05 ON 26 FEB 2008)

L19 908 SEARCH L18 SSS SUB=L3 FUL

=> d his 120-128

(FILE 'REGISTRY' ENTERED AT 09:48:05 ON 26 FEB 2008)

L20 328 S L19 AND (PYRROL?(L)DIONE)

L21 580 S L19 NOT L20

L22 125 S L21 AND (DIOXO? OR DIKETO?)

L23 455 S L21 NOT L22

FILE 'CAPLUS' ENTERED AT 09:55:59 ON 26 FEB 2008

L24 62 S L23

L25 4 S L24 AND (DEPRES? OR ANXI? OR CNS)

L26 58 S L24 NOT L25 L27 50 S L26 AND PY<=2002

L28 21 S L27 AND P/DT

=> d bib abs 125 1-4

L25 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN

2006:625334 CAPLUS AN

DN 145:271603

Diaryl substituted pyrrolidinones and pyrrolones as 5-HT2C inhibitors: Synthesis and biological evaluation

Micheli, Fabrizio; Pasquarello, Alessandra; Tedesco, Giovanna; Hamprecht, Dieter; Bonanomi, Giorgio; Checchia, Anna; Jaxa-Chamiec, Albert; Damiani, Federica; Davalli, Silvia; Donati, Daniele; Gallotti, Chiara; Petrone, Marcella; Rinaldi, Marilisa; Riley, Graham; Terreni, Silvia; Wood, Martyn

- CS GlaxoSmithKline Psychiatry Centre of Excellence for Drug Discovery, Verona, 4, 37135, Italy
- SO Bioorganic & Medicinal Chemistry Letters (2006), 16(15), 3906-3912 CODEN: BMCLE8, ISSN: 0960-894X
- PB Elsevier B.V.
- DT Journal
- LA English
- AB Within the continuous quest for the discovery of novel compds. able to treat anxiety and depression, the generation of a
 - pharmacophore model for 5-HT2C receptor antagonists and the discovery of a new class of potent and selective 5-HT2C mols. are reported.

RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L25 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN
- AN 2004:1019875 CAPLUS
- DN 141:406136
- TI Compositions of a cyclooxygenase-2 selective inhibitor and a peroxisome proliferator activated receptor agonist for the treatment of ischemia-mediated central nervous system disorders
- IN Needleman, Philip; Obukowicz, Mark G.; Arneric, Stephen P.
- PA Pharmacia Corporation, USA
- SO PCT Int. Appl., 164 pp. CODEN: PIXXD2
- DT Patent
- LA English
- LA Englisi

PAN.	CNII																
	PATEN'	KIND		DATE			APPL	ICAT		DATE							
PI	WO 2004100895				A2 20041125				WO 2	004-		20040512					
	W	AE,	AG,	AL,	AM,	ΑT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,
		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	ΚZ,	LC,
		LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,	NI,
		NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,
		ΤJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW
	R	V: BW,	GH,	GM,	KE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,
		AZ,	BY,	KG,	ΚZ,	MD,	RU,	ΤJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,
		EE,	ES,	FI,	FR,	GB,	GR,	HU,	ΙE,	IT,	LU,	MC,	NL,	PL,	PT,	RO,	SE,
		SI,	SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,
		SN,	TD,	TG													
	US 2005107387					A1 20050519				US 2	004-		20040512				
PRAI	PRAI US 2003-470240P						2003	0513									

OS MARPAT 141:406136

AB

The invention provides compns. and methods for the treatment of ischemia—mediated central nervous system disorders. More particularly, the invention provides a combination therapy for the treatment of a central nervous system ischemia—mediated disorder comprising the administration to a subject of a peroxisome proliferator activated receptor agonist in combination with a cyclooxygenase-2 selective inhibitor.

- L25 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN
- AN 2004:756686 CAPLUS
- DN 141:277494
- TI Preparation of diaryl substituted pyrrolidinones and pyrrolones having activity at 5-HT2c receptor
- IN Damiani, Federica; Hamprecht, Dieter; Micheli, Fabrizio; Pasquarello, Alessandra; Tedesco, Giovanna
- PA Glaxo Group Limited, UK
- SO PCT Int. Appl., 32 pp.

CODEN: PIXXD2

DT Patent LA English

FAN.	CNT 1	WIND DAME			APPLICATION NO.						D.3.MD						
						KIND DATE				-							
PΙ	WO 200				A1 20040916		WO 2004-EP1843										
		GE, LK, BW, BG,	CO, GH, LR, GH, CH,	CR, GM, LS, GM, CY,	CU, HR, LT, KE, CZ,	CZ, HU, LU, LS, DE,	DE, ID, LV, MW, DK,	DK, IL, MA, MZ, EE,	DM, IN, MD, SD, ES,	DZ, IS, MG, SL, FI,	EC, JP, MK, SZ, FR,	EE, KE, MN, TZ, GB,	EG, KG, MW, UG, GR,	ES, KP, MX, ZM, HU,	FI, KR, MZ, ZW, IE,	GB, KZ, NA, AT, IT,	GD, LC, NI BE, LU,
		GQ, GW, ML,		MR, NE, SN, TD, A1 20051130		TG	TR, BF, BJ, CF, CG, CI TG EP 2004-713874 GB, GR, IT, LI, LU, NL				·	20040224					
	R:																PT,
	JP 2006519241				T 20060824				CY, AL, TR, BG, CZ, EE, JP 2006-504465 US 2006-548118						20040224		
PRAI	GB 2003-5024 WO 2004-EP1843																
OS GI	MARPAT	141:	2774	94													

$$\begin{bmatrix} R^3 \\ p \end{bmatrix} \xrightarrow{0} \begin{bmatrix} R^4 \\ X & \begin{bmatrix} R^1 \end{bmatrix}_m \end{bmatrix} \xrightarrow{Y} Z$$

AB The title compds. [I, Rl = H, F, Cl, OH, alkyl, cycloalkyl, cycloalkyloxy, alkoxy or haloalkoxy; me -0-1; R2 = H, halo, CN, NO2, alkyl, cycloalkyl, cycloalkyl, cycloalkyl, cycloalkyl, alkoxy, haloalkoxy, alkylthio, amino, mono- or dialkylamino or an N-linked 4-7 membered heterocyclic group; X = CH2CH2, CH:CH, (CH2)3, C(CH3)2, CH:CHCH2, CH2CH:CH Or CHR5 (wherein R5 = H, halo, OH, CN, NO2, alkyl, cycloalkyl, cycloalkyl, peloalkyl, alkoxy, alkoxy, alkylthio, B3 = halo, CN, alkyl, cycloalkyl, cycloalkyl, cycloalkyl, cycloalkyl, alkoxy, alkoxy, alkylthio, B3 = halo, CN, alkyl, cycloalkyl, cycloalkyl, alkoxy, haloalkox, alkylthio, omno- or dialkylamino, etc.; p = 0-3; R4 = H, halo, OH, CN, NO2, alkyl, alkanoyl, cycloalkyl, cycloalkyloxy, haloalkyl, alkoxy, haloalkoxy, alkylthio, amino, mono- or dialkylamino or an N-linked 4-7 membered heterocyclic group; Y = O, S, CH2 or NR10 (wherein R10 = H, alkyl), D = a single bond, CH2, (CH2)2 or CH:CH; Z = NR11R12 (where R11 and R12 = H, alkyl, (un) substituted N-linked or C-linked 4-7 membered

heterocyclic group)] and their pharmaceutically acceptable salts, useful in treating, for example, depression and anxiety, were prepared E.g., a multi-step synthesis of II, was given. All exemplified compds. I were tested for their affinity for the 5-HT2c receptor, and were found to have pKi values >5.8. The pharmaceutical composition comprising the compound I is disclosed.

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2003:855908 CAPLUS

DN 139:350638

TI 3-Aryl-1-[4-alkoxy-3-[2-(piperidin-1-yl)ethoxy]phenyl]pyrrolidin-2-ones and analogs with affinity at 5-HT2C receptors, and use thereof in therapy, particularly as antidepressants and anxiolytics, and their preparation and pharmaceutical compositions

IN Damiani, Federica; Hamprecht, Dieter; Jaxa-Chamiec, Albert Andrzej; Micheli, Fabrizio; Pasquarello, Alessandra; Tedesco, Giovanna

PA Glaxo Group Limited, UK

SO PCT Int. Appl., 74 pp. CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT	KIND DATE						ICAT									
ΡI	WO 2003089409																
	W:	AE, A	G, AL,	AM,	ΑT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,	
		CO, C	R, CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	
		GM, H	R, HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KΡ,	KR,	ΚZ,	LC,	LK,	LR,	
		LS, LT, LU,															
		PL, P	r, RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	ТJ,	TM,	TN,	TR,	TT,	TZ,	
			g, US,														
	RW:	GH, G															
			Z, MD,														
		FI, F															
			J, CF,														
								AU 2003-222832						20030417			
		EP 1497265															
	R:	AT, B														PT,	
					, FI, RO, MK,												
		JP 2005529117															
		US 2005203079						US 2005-511769						2	0050	502	
PRAI		GB 2002-9029															
	GB 2002-20781 WO 2003-EP4180																
0.0		W		2003	0417												
os	MARPAT 139:350638																

GI

AB Title compds. I and their pharmaceutically acceptable salts are disclosed [wherein: R1 = H, OH, F, Cl, alkyl, cycloalkyl, cycloalkyloxy, alkoxy or haloalkoxy; m = 0 or 1; R2 = H, halo, cyano, NO2, alkyl, cycloalkyl, cycloalkyloxy, haloalkyl, alkoxy, haloalkoxy, alkylthio, amino, mono- or di-C1-6alkylamino, or N-linked 4-7 membered heterocyclic; X = CH2CH2, CH:CH, (CH2)3, C(CH3)2, CH:CHCH2, CH2CH:CH, or CHR5; R3 = halo, cyano, alkyl, cycloalkyl, cycloalkyloxy, C1-6alkoxy, C1-6alkylthio, OH, amino, mono- or di-C1-6alkylamino, N-linked 4-7 membered heterocyclic, NO2, haloalkyl, haloalkoxy, aryl, arylalkyl, arylalkyloxy, arylalkylthio, COOR6, CONR7R8, or COR9; R4 = H, halo, OH, cyano, NO2, alkyl, alkanoyl, cycloalkyl, cycloalkyloxy, haloalkyl, alkoxy, haloalkoxy, alkylthio, amino, mono- or di-alkylamino or N-linked 4-7 membered heterocyclic; R5 = H, halo, OH, cyano, NO2, alkyl, cycloalkyl, cycloalkyloxy, haloalkyl, alkoxy, haloalkoxy or alkylthio; R6, R7, R8, and R9 = H or alkyl; p = 0, 1, 2, or 3; Y = 0, S, CH2, or NR10; R10 = H or alkyl; D = bond, CH2, (CH2)2, or CH:CH; Z = (un)substituted C-linked 4-7 membered heterocyclic group containing at least 1 N, (un)substituted N-linked 4-7 membered heterocyclic, or Z = NR11R12; R11 and R12 = H or alkyl]. Methods of preparation and uses of I in therapy, particularly for treating CNS disorders such as depression and anxiety, are also disclosed. The affinities of compds. I for 5-HT2C receptors were determined by assessing their ability to displace [3H]-mesulergine from rat or human 5-HT2C clones expressed in 293 cells in vitro, as described in WO 94/04533. All example compds. were so tested and had pKi values >5.8. Some compds. I show a considerably higher affinity, in the range of 7.0 to >9.0 in human cells. Approx. 45 synthetic examples and approx. 75 precursor prepns. are given. For instance, 3,4-dichlorophenylacetic acid underwent a sequence of (1) α -lithiation and allylation, (2) amidation with 2-(5-amino-2-methoxyphenoxy)ethyl acetate, (3) OsO4-catalyzed glycolation of the alkene, and periodate oxidation of the glycol with cyclic hemiaminal formation, to give a 5-hydroxy-2pyrrolidinone derivative, (4) reduction of the latter to remove 5-hydroxy, (5) saponification of the acetate ester sidechain to an alc., (6) conversion of the alc. to a mesylate ester, and (7) aminolysis of the mesylate with piperidine in the presence of K2CO3 and NaI, followed by benzylic hydroxylation with air over 18 h, to give title compound II.

ΙI

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT